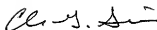


**REPLACEMENT CLAIMS**

- 1)-30) (CANCELED)
- 31) (PREVIOUSLY PRESENTED) A method of producing a cloned non-human, non-primate mammalian NT embryo, the method comprising (a) introducing metaphase donor genetic material, in the form of a cell or nucleus, from a differentiated cell of a non-human, non-primate species into an metaphase oocyte of the same species, and (b) activating the oocyte, thereby yielding a cloned non-human, non-primate mammalian NT embryo, wherein activating comprises introducing to the oocyte cytoplasm from a fertilized oocyte.
- 32) (PREVIOUSLY PRESENTED) A method of producing a cloned non-human, non-primate mammalian NT embryo, the method comprising (a) introducing metaphase donor genetic material, in the form of a cell or nucleus, from a differentiated cell of a non-human, non-primate species into an metaphase oocyte of the same species, and (b) enucleating the oocyte after introducing the donor genetic material to the oocyte, wherein enucleating the oocyte comprises removal of maternal genetic material and activating the oocyte, thereby yielding a cloned non-human, non-primate mammalian NT embryo.
- 33) (PREVIOUSLY PRESENTED) A method of producing a cloned non-human, non-primate mammalian NT embryo, the method comprising (a) introducing metaphase donor genetic material, in the form of a cell or nucleus, from a differentiated cell of a non-human, non-primate species into an metaphase oocyte of the same species, wherein the oocyte is arrested at metaphase I as a result of exposure to an arresting agent, and (b) activating the oocyte, thereby yielding a cloned non-human, non-primate mammalian NT embryo.
- 34) (PREVIOUSLY PRESENTED) The method of claim 33 wherein the oocyte is enucleated while in metaphase I.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Clark G. Sullivan", with a stylized flourish at the end.

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